

ADVERTISEMENT FOR BIDS

Notice is hereby given that sealed bids will be received by the Adams County Board of Supervisors for the purchase, from the lowest and best bidder, of the following item as needed, for the Adams County Road Department, for a New 2026 and Unused Grapple Truck.

Bids must be received by 10:00 A.M., Tuesday, July 8, 2025 at the County Administration Building, 314 State Street, Natchez, Mississippi, at which time bids will be opened.

Bids submitted with qualifications or exceptions will not be considered.

All bids are to be SEALED, PLAINLY ADDRESSED TO THE ADAMS COUNTY BOARD OF SUPERVISORS, and outside of envelope containing bids should be marked; "BID ON (# Item Bidding On)".

Bids may be hand delivered to 314 State Street, Natchez, Mississippi or mailed to the County Administration Building, Natchez, Mississippi 39120.

Bid prices are to be firm and not subject to change during the period specified above.

The Board of Supervisors reserves the right to waive informalities and to reject any and all bids.

DE'NEEN PRICE
PURCHASE CLERK
601-445-7941

PUBLICATION DATES:
June 11, 2025
June 18, 2025

Bid Opening: July 8, 2025

Adams County Road Department
Specifications for New 2026
Grapple Truck

Equipment offered for consideration must be new 2026 and unused. Used or discontinued models are unacceptable. Bidders shall include printed literature for the equipment offered. This is bid as one unit.

The following specifications are considered minimum acceptable.

CHASSIS SPECS

ENGINE & EQUIPMENT

New & Unused 2026

Conventional AirRide Cab

ENGINE & EQUIPMENT

300 HP Engine or greater no exceptions

860 lb/ft torque or greater (**no exceptions**)

9 engine liter displacement or greater

Air Compressor 18.7CFM or greater

Air Cleaner: composite engine mounted

2-Speed fan hub

1000 sq/in Cooling module or greater

Exhaust: 2024 EPA; Dual vertical

Engine block heater (120 volt minimum)

Fuel/water separator: 2021 Emissions

160 AMP Alternator minimum

(3) or more batteries – 2100 CCA dual purpose

12-Volt light system with circuit protection

12-Volt Starter

TRANSMISSION & EQUIPMENT

Allison 3500 RDS series automatic transmission

Transmission PTO Rear Support Spring(s)

Heavy Duty Driveline: 3 Dana SPL170XL or the Meritor equivalent

Torque converter

Park brake auto neutral

FRONT AXLE & EQUIPMENT

12k or greater front axle, Dana Spicer E-1202IL or equal Meritor Brand

Front Brakes 14.6k or greater

Front Drums 14.6k or greater

Front Hubs 14.6k or greater

Front auto slack adjusters

12k or greater Taper leaf front springs

Single power steering gears 13.2k or greater

REAR AXLE & EQUIPMENT

21k or greater Rear axle, Dana Spicer S21-172 or the equivalent Meritor Brand w/heavy-wall housing

Rear axle ratio: 5.57

Rear Brakes: Bendix ES S-Cam 16.5x7" or equivalent

Single rear hubs 26k or greater

Rear slack adjusters

Single spring brake 3030 high output dual

Bendix 4S/4M Anti-lock brake system or greater

23,000 lb. Taper leaf suspension, REYCO 79KB or equal

TIRES & WHEELS

Front tires: Goodyear or equivalent (11R22.5) 16PR

Rear tires: Goodyear or equivalent (11R22.5) 14PR

Front wheels & Rear wheels: Alcoa (22.5x8.25)

FRAME & EQUIPMENT

FRAME RAILS: 2,023,715 RBM Steel frame or greater (must meet body builders' recommendations)

Section modulus: 16.864 or greater

120,000 PSI Yield steel required

Aerodynamic bumper, painted or steel

Two front tow loops

FUEL TANK(S) & EQUIPMENT

50 Gallon fuel tank or greater with anti-siphon device

5.5 Gallon DEF tank LH Back of Cab or greater

CAB & EQUIPMENT

Aluminum (For weight saving purposes)

2.1m Air Ride Cab

Heater with integral defroster and A/C

Adjustable telescoping tilt steering column

Dash mounted air filter restriction gauge

Transmission oil temperature gauge

Speedometer

Tachometer

Fuel gauge

Engine coolant temperature gauge

Engine oil pressure gauge

Engine hour meter

LH & RH trip ledge rain deflectors

Air driver seat

Two-man passenger seat w/ toolbox

AM/FM/WB/USB/BT Radio

Cab access grab handles, LH & RH

Exterior Stainless Steel sun visor

One- piece windshield (for safety purposes- clear unbroken view)

Air Ride Cab

Locks and LH & RH window controls

Dual aero rearview mirror

Fender mounted turn signal lights

Bendix AD-HF air dryer

Moisture drain valve with pull cable drain

Raised profile roof (aluminum)

PAINT

Color: White with Black body or color cab must have matching body

LOADER AND GRAPPLE MODEL M100L72 or APPROVED EQUAL

NET LIFTING MOMENT

73,760 ft.lbs

CAPACITY & REACH

7,780 lbs.@10'- 5,100 lbs. @15'- 3,860 lbs.@20'- 3,280 lbs.@ full reach (23'6")

HORIZONTAL REACH

23'6"

MAIN & OUTER BOOM LENGTH-HORIZONTAL

18'4"

EXTENSION LENGTH

5'2"

CRANE RATING

Minimum HC1/HD4/B4

LOADER WEIGHT

4,010 lbs.

HYDRAULIC SYSTEM

F130CF single circuit control valve

3,120 main system pressure

21 GPM

High pressure filter

CRANE BASE & STABILIZERS

Stabilizers shall be of an "H-Frame" design with a spread of 12'6" when fully extended

Stabilizers in/out and up/down functions shall be hydraulically controlled

Stabilizers shall have a minimum spread of 10'4"

Stabilizer in/out and up/down functions shall all be independently controlled via switches at both operator control stations

OPERATOR CONTROL STATION AND OPERATOR CONTROLS

Crane base to have stand up operator control station platform on curb and street sides

Control station platforms to have perforated steel grip

Control station platforms to have pivoting safety bar on outside edge of platform for operator safety

Each control station to have emergency stop button and toggle switch for truck rpm +/- throttle control

Each control station to have bullseye style bubble levels

Pilot operated dual joystick controls at both curb and street side operator stations

LCD display hour counter and service timer located at curb side operator control station

Each control station shall have a button to swap live controls to one side or the other, such that both control stands are not active at the same time

COLUMN & SLEWING SYSTEM

Minimum 17,700 ft lbs. net slewing torque

425° rotation

Capable of 8 rotations per minute at full hydraulic flow

Crane column to be solid cast

Slewing derived via a solid double rack slewing system

Slewing racks immersed in oil bath with self-aligning roller bearing

End of stroke dampening for precision slewing control

Divided slewing pistons on ends of racks for easy service of piston

MAIN & OUTER BOOM

Main boom lift cylinder shall have a sliding steel guard to protect the cylinder load from damage

Main boom section to have raised sides to create a protective recess for the steel hydraulic lines and hoses on the top of the main boom

All line and hose connections on the top of the main boom shall be staggered and elevated off the top of the main boom structure for ease of service

Steel lines on the top of the main boom shall be KTL painted (see KTL paint requirements in Paint Section)

Loader shall have a linkage system between main and outer boom to provide a consistent rate of movement and load capacity throughout the arc of the loader's movement at a given horizontal reach. The load capacity at a given horizontal reach shall deviate more than 2.5% when evaluated at 0' vs 10' elevation from ground level

Outer boom cylinder shall be mounted above the main and outer boom to help protect cylinder from contact with truck body and body debris

The outer boom shall articulate up and additional 25 degrees in relation to the main boom. NO EXCEPTIONS

All bushing in the arm system shall be bronze and incorporate grease channels to maximize lubrication and maintenance

EXTENSION SYSTEM

Extension cylinder, hoses and pipes shall be located inside the outer boom and extension sections. No external hoses, pipes or cylinders are acceptable.

Extension system shall have adjustable wear pads and guide blocks

SUSPENSION LINK & ROTATOR

Suspension link shall be cast steel and have open center for routing of rotator hoses. Hose routing outside of the suspension link is not acceptable.

Suspension link shall be a dual pin design at the attachment points where the link attaches to the loader extension section

Rotator shall be a 10-ton Epsilon model RB10F or approved equal

Rotator shall be capable of 360° continuous rotation

Rotator shall have side and bottom ports

Rotator shall have a bolt on steel guard plate covering the hose fitting connections and ports on the rotator

GRAPPLE

BDV100-42 or approved equal

Clamshell, butt-style grapple

42" wide jaws

Bolt-on HARDOX steel cutting edges for jaws

64" open width

6,744 ft. lbs of closing force

(2) cylinder open/close design

Cylinders protected by steel plates underneath cylinders and grapple head above cylinders

Bolt-on grapple head for easy servicing of cylinders and hydraulic components

4,000 lbs. snap in load hooks on each side of grapple head

Cylinder hoses routed through bottom ports on rotator and through top opening on grapple head assembly. Rotator side port hose routing not acceptable.

PAINT

Crane structural components and pipes shall be painted using "KTL" (or equal) process. KTL is an immersion painting process featuring cataphoresis electrostatic coating.

Crane components and pipes shall be blasted with wire shot and then treated in zinc phosphate solution. Primer shall be applied and baked. Topcoat shall be powder coating with hardening by baking at 400 degrees.

HYDRAULIC SYSTEM

Hotshift PTO with direct mount, single circuit hydraulic pump

53-gallon steel hydraulic reservoir within tank return filter and 2" shut off valve

Manual dump body control valve mounted on street side frame rail with remote air joystick control mounted at street side crane operator control platform

Dump body control valve to have internal relief valve

Crane to be hydraulically powered via power beyond port on body control valve

BODY

Body shall be 27yd. MPMD series body or approved equal

20' length

60" high sides

Side height shall taper down to a height of 48" at front of the body with taper beginning at mid-point of body

60" high tailgate

Minimum 3/16" DOMEX 100W floor

87" floor width

Floor sheet to side sheet transition shall be constructed with a knee brace at angles upward from the floor to the side at 57 degrees

Long sills shall be C-channel structural steel with a formed flared support flange. Support flange must have a minimum 1 3/4" return to support the floor with a wide a span as possible

Long sills shall have a minimum bottom surface span of 2 1/4" wide

The body shall be cross-memberless. Cross-member understructure not acceptable.

Minimum 3/16" DOMEX 100W front bulkhead

Front bulkhead shall be one-piece flat panel design

Front bulkhead shall be capped at the top with a 4"x3"x3/16" structural tube that runs the full width of the front sheet

Minimum 3/16" DOMEX 100W sides

Side design shall include a formed single side sheet with formed two-bend pressed-in horizontal braces to increase rigidity (no exception). Weld on horizontal bracing and flat sided designs are not acceptable due to inferior rigidity and stability of the side plate.

Lower run rail shall be formed an integral to the side sheet (weld-on rub rails are not acceptable)

Lower rub shall be dirt shedding with an angle of 40° and shall have a 90° end face of 3" high (rub rails finishing in a point or rounded edge are not acceptable)

The top rail shall be a 4"x4"x3/16" structural steel HSS tubing. Formed top rails are not acceptable

Rear posts shall be full depth, one piece construction and fabricated out of a minimum 3/16" steel

Minimum 3/16" DOMEX 100W rear tailgate door

Tailgate shall be of manual side opening design ("Barn Door Style")

Tailgate wear surface shall be a single piece, fully formed, with two pressed-in horizontal V-braces to increase rigidity. Flat panel designs are unacceptable due to inferior rigidity and stability.

The tailgate outer frame shall consist of single, dirt shedding formed upper and lower brace. The outer side bracing shall be 3"x1"x1/8" structural tubing. Weld-on intermediate horizontal and/or vertical braces are not acceptable due to decrease resistance of tailgate plate to deformation.

Side opening hardware shall consist of three side opening hinges with 1" diameter hinge pins with bushings and castle nut

Hinge pins to have (2) grease zerks per pin

Tailgate latch shall be equipped with an ergonomic handle and must have a spring-loaded return for safety

All body seams to be 100% fully welded. No exceptions

Body shall have an underbody mounted double acting scissor style hoist

Rear truck frame and hinge area to have minimum 3/16" steel cover plate from bottom of hinge assembly angle to bottom of truck frame channel

Body shall have a single body prop

Body shall be sandblasted and primed with a 2-part epoxy primer at a minimum thickness of 4 mils

Primer salt spray resistance must be a minimum of 1500 hours (no exceptions). Bidder must supply primer manufacturer's literature showing the required minimum salt spray resistance.

Body to be painted with an industrial grade enamel gloss black paint

LIGHTS AND ELECTRICAL

All body lighting to be LED (no exceptions)

Body to have 3/4" amber LED grommet mount marker lights on front, outside corners of body

Body to have 3/4" red LED grommet mount marker lights on rear, outside corners of body

(3) 3/4" red LED grommet mount marker lights shall be installed in steel cover plate from bottom of rear body hinge assembly to bottom of truck frame channel

Body to have 6" oval red LED grommet mount stop/turn/taillights, 6" oval white LED backup lights and 6" installed in rear body post, rearward facing

Body to have 6" oval amber LED grommet mount strobe lights in rear body post, rearward facing

(2) 4" slim line flange mounted amber/white LED strobe lights shall be mounted to front bumper of truck

(2) 4" slim line flange mounted amber/white LED strobe lights shall be mounted to outside point of crane stabilizer cylinders

All strobe lights to be controlled via single in-cab switch

6"x8"x6" gray polycarbonate weatherproof junction box shall be mounted on driver's side of truck frame

Junction box shall have a minimum NEMA 4X/IP66 rating

Junction box shall have DIN rail mounted resettable mini circuit breakers for all loader power circuits

Junction box shall have DIN rail mounted central ground terminals for ground connections for loader and oil cooler

Junction box shall have DIN rail mounted relay to control truck throttle signal from loader to chassis ECM input

Junction box shall have a heavy duty 150 AMP solenoid to control power supply to DIN rail breakers only when PTO is engaged

ACCESSORIES AND OTHER MISCELLANEOUS

Truck shall have an aluminum 18"x18"x36" frame mounted toolbox

Truck shall have truck frame bolted; spring loaded mudflap brackets with DOT complaint mudflaps

Truck shall have DOT complaint ICC bumper

Top of truck frame area between truck cab and loader shall have a 8' wide, 24" long pass-through operator platform with access steps on both street and curb sides

Pass through platform shall be steel constructed with minimum of 1 1/2"x3"x11 ga steel tube frame and serrated grated platform and step treads

Platform shall have handrails on both sides of steps

Crane shall have minimum of 3/8" thick angle steel wear plates between crane and truck frame

Truck shall have DOT compliant reflectors and conspicuity tape

All steel fabrication shall be painted gloss black enamel

Warranty: Full machine warranty for the duration of the lease, including any and all travel time and millage

Buyback: 36-month machine buyback must be provided

Other: Bidder shall have a certified parts and service center located within 50 miles of Natchez, MS Adams County

Must give estimate time of delivery

Cost must include delivery to one of the county barns

Name of Company

Address of Company

Contact Person

Location of Service Center

Name of Seller

Signature of Seller
